

AMENDMENTS TO THE CLAIMS

Please amend claims 10, 23, 31, 34, 37 and 41 as indicated in the complete listing of claims provided below.

1. (Original) A method of operating a proxy server, the method comprising:
receiving an initial request from a user device during a current session between the user device and the proxy server;
terminating the current session if the initial request is to a secure server; and
establishing a tunnel, through the proxy server, between the user device and the secure server, via a trusted domain proxy/firewall, upon receipt of a further request from the user device to access the secure server if the initial request is to a secure server.
2. (Original) The method of claim 1, further comprising determining whether the initial request is to a destination address of a secure server.
3. (Original) The method of claim 2 wherein determining whether the initial request is to a destination address of a secure server comprises finding a match of the destination address of the secure server in a pre-provisioned list of secure servers in the proxy server.
4. (Original) The method of claim 2 wherein determining whether the initial request is to a destination address of a secure server comprises forwarding the request to a non-secure server associated with the destination address and receiving an error message in response thereto, which message is indicative that the destination address is that of a secure server.

5. (Original) The method of claim 1 further comprising waiting a predetermined period for the further request.
6. (Original) The method of claim 1 wherein establishing the tunnel comprises storing state information in order to identify the further request as being associated with the initial request.
7. (Original) The method of claim 1 wherein terminating the current session comprises sending an error message to the user device which causes the user device to send the further request to the proxy server.
8. (Original) The method of claim 7 wherein the error message is a standard error message in a protocol supported by the user device.
9. (Original) The method of claim 1 wherein establishing the tunnel comprises opening a socket with the trusted domain proxy/firewall and mapping the socket to an inbound socket opened with the user device upon receipt of the further request.
10. (Currently Amended) The method of claim 1 further comprising establishing a time-to-live default delay for the tunnel, beyond which time the tunnel is terminated.
11. (Original) The method of claim 1 which comprises terminating the tunnel upon the occurrence of a predetermined event.

12. (Original) The method of claim 11 wherein the predetermined event comprises receiving a request from the user device to access a server other than the secure server.

13. (Original) The method of claim 11 wherein the predetermined event comprises the termination of the session between the user device and the trusted domain proxy/firewall at the instance of the trusted domain proxy/firewall.

14. (Original) A machine readable program storage medium, having code stored therein, which when executed on a proxy server causes the proxy server to perform a method comprising

receiving an initial request from a user device during a current session between a user device and the proxy server;

terminating the current session if the initial request is to a secure server; and establishing a tunnel, through the proxy server, between the user device and the secure server, via a trusted domain proxy/firewall, upon receipt of a further request from the user device to access the secure server if the initial request is to a secure server.

15. (Original) The machine readable program storage medium of claim 14, wherein the method comprises determining whether the initial request is to a destination address of a secure server.

16. (Original) The machine readable program storage medium of claim 15, wherein determining whether the initial request is to a destination address of a secure server,

comprises finding a match of the destination address in a pre-provisioned list of secure servers in the proxy.

17. (Original) The machine readable program storage medium of claim 16, wherein determining whether the initial request is to a destination address of a secure server comprises forwarding the request to a non-secure server associated with the destination address and receiving an error message in response thereto, which message is indicative that the destination address is that of a secure server.

18. (Original) The machine readable program storage medium of claim 14, wherein the method further comprises waiting a predetermined period for the further request.

19. (Original) The machine readable program storage medium of claim 14, wherein establishing the tunnel comprises storing state information in order to identify the further request as being associated with the initial request.

20. (Original) The machine readable program storage medium of claim 14, wherein terminating the current session comprises sending an error message to the user device which causes the user device to send the further request to the proxy server.

21. (Original) The machine readable program storage medium of claim 20, wherein the error message is a standard error message in a protocol supported by the user device.

22. (Original) The machine readable program storage medium of claim 14, wherein establishing the tunnel comprises opening a socket with the trusted domain

proxy/firewall and mapping the socket to an inbound socket opened with the user device upon receipt of the further request.

23. (Currently Amended) The machine readable program storage medium of claim 14, wherein the method further comprises establishing a time-to-live ~~default~~delay for the tunnel, beyond which time the tunnel is terminated.

24. (Original) The machine readable program storage medium of claim 14, wherein the method comprises terminating the tunnel upon the occurrence of a predetermined event.

25. (Original) The machine readable program storage medium of claim 24, wherein the predetermined event comprises receiving a request from the user device to access a server other than the secure server.

26. (Original) The machine readable program storage medium of claim 24, wherein the predetermined event comprises the termination of the session between the user device and the trusted domain proxy/firewall at the instance of the trusted domain proxy/firewall.

27. (Original) A proxy server comprising:
a processor; and
a memory device, having stored therein a code, which when executed by the processor, causes the proxy server to:
receive an initial request from a user device during a current session between the user device and the proxy server;

terminate the current session if the initial request is to a secure server; and

establish a tunnel, through the proxy server, between the user device and the secure server, via a trusted domain proxy/firewall, upon receipt of a further request from the user device to access the secure server if the initial request is to a secure server.

28. (Original) The proxy server of claim 27, wherein the code comprises instructions to determine whether the initial request is to a destination address of a secure server.

29. (Original) The proxy server of claim 28, wherein determining whether the initial request is to a destination address of a secure server comprises finding a match of the destination address of the secure server in a pre-provisioned list of secure servers in the proxy server.

30. (Original) The proxy server of claim 29, wherein determining whether the initial request is to a destination address of a secure server comprises forwarding the request to a non-secure server associated with the destination address and receiving an error message in response thereto, which message is indicative that the destination address server is that of a secure server.

31. (Currently Amended) The method proxy server of claim 28, wherein the code further comprises instructions for waiting a predetermined period for the further request.

32. (Original) The proxy server of claim 28, wherein establishing the tunnel comprises storing state information in order to identify the further request as being associated with the initial request.

33. (Original) The proxy server of claim 28, wherein terminating the current session comprises sending an error message to the user device which causes the user device to send the further request to the proxy server.

34. (Currently Amended) The ~~method~~ proxy server of claim 33, wherein the error message is a standard error message in a protocol supported by the user device.

35. (Original) The proxy server of claim 28, wherein establishing the tunnel comprises opening a first socket with the trusted domain proxy/firewall and mapping the socket to an inbound socket opened with the user device upon receipt of the further request.

36. (Original) The proxy server of claim 28, wherein the code further comprises instructions to establish a time-to-live default for the tunnel, beyond which time the tunnel is terminated.

37. (Currently Amended) The proxy server of claim ~~427~~, wherein the code further comprises instructions to terminate the tunnel upon the occurrence of a predetermined event.

38. (Original) The proxy server of claim 37, wherein the predetermined event comprises receiving a request from the user device to access a server other than the secure server.

39. (Original) The proxy server of claim 38, wherein the predetermined event comprises the termination of a session between the user device and the trusted domain proxy/firewall at the instance of the trusted domain proxy/firewall.

40. (Original) A proxy server comprising:

means for receiving an initial request from a user device during a current session between the user device and the proxy server;

means for terminating the current session if the initial request is to a secure server; and

means for establishing a tunnel, through the proxy server, between the user device and the secure server, via a trusted domain proxy/firewall, upon receipt of a further request from the user device to access the secure server.

41. (Currently Amended) A method of operating a proxy server, the-a method comprising:

receiving an initial request from a user device during a current session between the user device and the proxy server;

determining whether the initial request is to a secure server;

terminating the current session between the user device and the proxy server if the initial request is to a secure server, the current session being terminated with a standard error message in a protocol understood by the user device which message

causes the user device upon receipt of the error message to re-send the request to the proxy server; and

upon receipt of the re-sent request within a predetermined time, opening a socket with ~~the-a~~ trusted domain proxy/firewall and mapping the socket with an inbound socket opened between the proxy server and the user device.